

In the Claims:

Please add the following new claims.

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100. A refrigerated display case comprising:
a frame for defining an area to be refrigerated;
at least one product support within the area to be refrigerated, the product support positioned within the area to be refrigerated so that at least part of any product supported on the support can be seen from outside the refrigerated display case;
a light source supported relative to the frame so as to illuminate product on the product support, the light source including cylindrical contacts;
at least one socket for the light source supported relative to the frame and having socket contacts for supplying electrical energy to the light source through the cylindrical contacts and the socket contacts, wherein the socket contacts have a surface area available for electrical contact of at least 0.008 square inch;
a conductor for carrying current wherein the conductor has a surface area available for electrical contact of at least 0.008 square inch;
a ballast electrically coupled to the conductor, the ballast configured for operating at a frequency above 100 cycles per second and above 200 volts; and
a releasable junction between the at least one electrical conductor and the contacts of the at least one socket for forming an electrical bridge between the at least one electrical conductor and the contacts wherein the bridge has a surface area available for electrical contact of at least 0.008 square inch.

101. The display case of claim 100 wherein the light source is supported by a support mounted to the frame.

102. The display case of claim 101 wherein the support is a mullion and wherein the light source is releasably fixed to the mullion.

103. The display case of claim 102 wherein the ballast is supported by the mullion.

104. The display case of claim 103 wherein the conductor for carrying current extends within the mullion.

105. The display case of claim 103 wherein the releasable junction is positioned on the same side of the mullion as the light source.

106. The display case of claim 101 wherein the releasable junction has one portion that is integral with the at least one socket.

107. The display case of claim 101 wherein the releasable junction includes a housing surrounding a portion of the at least one electrical conductor.

108. The display case of claim 107 wherein the at least one socket includes a connector coupled to at least one socket contact and wherein the socket includes a connector housing surrounding a portion of the connector for engaging the housing on the releasable junction.

110. The display case of claim 100 wherein the ballast is supported by the frame and wherein the at least one light source is also mounted to the frame and wherein the conductor extends from the ballast along a first part of the frame and through an opening in the frame to the at least one socket.

111. The display case of claim 110 wherein the opening is adjacent the at least one socket.

112. The display case of claim 100 wherein the releasable junction includes a cylindrical pin and a mating cylindrical sleeve.

113. The display case of claim 112 wherein the pin and sleeve make electrical contact over at least 180 degrees of circumference around the cylindrical pin.

114. The display case of claim 100 wherein the conductor is a frame conductor and further comprising a ballast connector for connecting a ballast conductor to the frame conductor, and wherein the ballast connector has a surface area available for electrical contact of at least 0.008 square inch.

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cont
115. The display case of claim 114 wherein the ballast connector, the releasable junction, the frame conductor and the at least one socket each have surface areas of contact available for electrical contact of at least 0.05 square inch.

116. The display case of claim 100 wherein the at least one socket has socket contacts having a circumference and wherein the at least one socket includes an insulating portion encircling the circumference of the socket contacts.

117. The display case of claim 116 wherein the socket contacts have respective lengths and wherein the insulating portion has a length greater than the lengths of the socket contacts.

118. A refrigerated display case comprising:
a frame defining a refrigerated enclosure;